

=====

Sequence Listing could not be accepted due to errors.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: [year=2007; month=11; day=27; hr=14; min=13; sec=36; ms=956;
]

=====

Reviewer Comments:

<210> 1

<211> 21

<212> DNA

<213> Mus musculus

<400> 1

aagccgtcct gtgtgccgct g

Please insert a cumulative nucleotide total at the right margin. This type of error appears globally. FYI: per Sequence Rules, the maximum number of characters per line (includes white spaces) is 72.

Application No: 10588602 Version No: 1.0

Input Set:

Output Set:

Started: 2007-11-02 19:37:59.191
Finished: 2007-11-02 19:38:05.924
Elapsed: 0 hr(s) 0 min(s) 6 sec(s) 733 ms
Total Warnings: 22
Total Errors: 373
No. of SeqIDs Defined: 374
Actual SeqID Count: 374

Error code	Error Description
E 254	The total number of bases conflicts with running total Input: 0, Calculated : 21 SEQID(1)
E 254	The total number of bases conflicts with running total Input: 0, Calculated : 21 SEQID(2)
E 254	The total number of bases conflicts with running total Input: 0, Calculated : 21 SEQID(3)
E 254	The total number of bases conflicts with running total Input: 0, Calculated : 21 SEQID(4)
E 254	The total number of bases conflicts with running total Input: 0, Calculated : 21 SEQID(5)
E 254	The total number of bases conflicts with running total Input: 0, Calculated : 21 SEQID(6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
E 254	The total number of bases conflicts with running total Input: 0, Calculated : 10 SEQID(7)
W 213	Artificial or Unknown found in <213> in SEQ ID (8)
E 254	The total number of bases conflicts with running total Input: 0, Calculated : 15 SEQID(8)
E 254	The total number of bases conflicts with running total Input: 0, Calculated : 21 SEQID(9)
E 254	The total number of bases conflicts with running total Input: 0, Calculated : 21 SEQID(10)
W 213	Artificial or Unknown found in <213> in SEQ ID (11)
E 254	The total number of bases conflicts with running total Input: 0, Calculated : 21 SEQID(11)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)

Input Set:

Output Set:

Started: 2007-11-02 19:37:59.191
Finished: 2007-11-02 19:38:05.924
Elapsed: 0 hr(s) 0 min(s) 6 sec(s) 733 ms
Total Warnings: 22
Total Errors: 373
No. of SeqIDs Defined: 374
Actual SeqID Count: 374

Error code	Error Description
E 254	The total number of bases conflicts with running total Input: 0, Calculated : 21 SEQID(12)
W 213	Artificial or Unknown found in <213> in SEQ ID (13)
E 254	The total number of bases conflicts with running total Input: 0, Calculated : 47 SEQID(13)
W 213	Artificial or Unknown found in <213> in SEQ ID (14)
E 254	The total number of bases conflicts with running total Input: 0, Calculated : 47 SEQID(14)
W 213	Artificial or Unknown found in <213> in SEQ ID (15)
E 254	The total number of bases conflicts with running total Input: 0, Calculated : 47 SEQID(15)
W 213	Artificial or Unknown found in <213> in SEQ ID (16)
E 254	The total number of bases conflicts with running total Input: 0, Calculated : 30 SEQID(16)
W 213	Artificial or Unknown found in <213> in SEQ ID (17)
E 254	The total number of bases conflicts with running total Input: 0, Calculated : 30 SEQID(17)
W 213	Artificial or Unknown found in <213> in SEQ ID (18)
E 254	The total number of bases conflicts with running total Input: 0, Calculated : 30 SEQID(18)
W 213	Artificial or Unknown found in <213> in SEQ ID (19)
E 254	The total number of bases conflicts with running total Input: 0, Calculated : 30 SEQID(19)
W 213	Artificial or Unknown found in <213> in SEQ ID (20)
E 254	The total number of bases conflicts with running total Input: 0, Calculated : 20 SEQID(20) This error has occurred more than 20 times, will not be displayed
W 213	Artificial or Unknown found in <213> in SEQ ID (21)

Input Set:

Output Set:

Started: 2007-11-02 19:37:59.191
Finished: 2007-11-02 19:38:05.924
Elapsed: 0 hr(s) 0 min(s) 6 sec(s) 733 ms
Total Warnings: 22
Total Errors: 373
No. of SeqIDs Defined: 374
Actual SeqID Count: 374

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (22)
W 213	Artificial or Unknown found in <213> in SEQ ID (23)
W 213	Artificial or Unknown found in <213> in SEQ ID (24)
W 213	Artificial or Unknown found in <213> in SEQ ID (25)
W 213	Artificial or Unknown found in <213> in SEQ ID (26)
W 213	Artificial or Unknown found in <213> in SEQ ID (27)
W 213	Artificial or Unknown found in <213> in SEQ ID (28) This error has occurred more than 20 times, will not be displayed

SEQUENCE LISTING

<110> TANG, QUINN
LU, PATRICK
XIE, FRANK
WOODLE, MARTIN

<120> RNAI THERAPEUTICS FOR TREATMENT OF EYE
NEOVASCULARIZATION DISEASES

<130> INTM/019 US

<140> 10588602
<141> 2007-11-02

<150> PCT/US05/003857
<151> 2005-02-07

<150> 60/541,775
<151> 2004-02-05

<160> 374

<170> PatentIn Ver. 3.3

<210> 1
<211> 21
<212> DNA
<213> *Mus musculus*

<400> 1
aagccgtcct gtgtgccgct g

<210> 2
<211> 21
<212> DNA
<213> *Mus musculus*

<400> 2
aacgatgaag ccctggagtg c

<210> 3
<211> 21
<212> DNA
<213> *Mus musculus*

<400> 3
aagttaaaag tgcctgaact g

<210> 4
<211> 21
<212> DNA
<213> *Mus musculus*

<400> 4
aagcaggcca gactctcttt c

<210> 5
<211> 21
<212> DNA
<213> *Mus musculus*

<400> 5
aagctcagca cacagaaaga c

<210> 6
<211> 21
<212> DNA
<213> *Mus musculus*

<400> 6
aatgcggcgg tggtgacagt a

<210> 7
<211> 10
<212> DNA
<213> *Artificial Sequence*

<220>
<223> *Description of Artificial Sequence: Synthetic
oligonucleotide*

<400> 7
tcaacgttga

<210> 8
<211> 15
<212> DNA
<213> *Artificial Sequence*

<220>
<223> *Description of Artificial Sequence: Synthetic
oligonucleotide*

<400> 8
gctagacgtt agcgt

<210> 9
<211> 21
<212> DNA
<213> *Escherichia coli*

<400> 9
aacagttgcg cagcctgaat g

<210> 10
<211> 21
<212> DNA
<213> Escherichia coli

<400> 10
aacttaatcg cttgcagca c

<210> 11
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 11
aagctatgaa acgatatggg c

<210> 12
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 12
aaccgctgga gagcaactgc a

<210> 13
<211> 47
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 13
gaacatcgat gacaagctta ggtatcgata caagctgcct cgcccttg

<210> 14
<211> 47
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 14
gaacatcgat gacaagctta ggtatcgata tagattgaag attccgc

<210> 15
<211> 47
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 15
gaacatcgat gacaagctta ggtatcgata ggtcactgac agaggcg

<210> 16
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 16
gaacatcgat gacaagctta ggtatcgata

<210> 17
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 17
gatgtctacc agcgaagcta ctgccgtccg

<210> 18
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 18
gtcagctgct gggacaccgc ggtcttgcc

<210> 19

<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 19
ggcgctgcta gctgtcgctc tgtggttctg

<210> 20
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 20
cctggtcacc agggctgctt

<210> 21
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 21
ccagccttct ccatggtggt

<210> 22
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 22
gcgggctgcc tcgcagtc

<210> 23
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
primer

<400> 23

tcacccgcctt ggcttgtcac

<210> 24

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
primer

<400> 24

catcctgcac caccaactgc ttag

<210> 25

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
primer

<400> 25

gcctgcttca ccacacctt gatg

<210> 26

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
primer

<400> 26

gccagcacat agagagaatg agc

<210> 27

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
primer

<400> 27

caaggctcac agtgatttc tgg

<210> 28
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 28
Ala Cys Arg Gly Asp Met Phe Gly Cys Ala
1 5 10

<210> 29
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 29
aagctgaccc tgaaggttcat c

<210> 30
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 30
aagcagcacg acttcttcaa g

<210> 31
<211> 21
<212> DNA
<213> Homo sapiens

<400> 31
aagtggtccc aggctgcacc c

<210> 32
<211> 21
<212> DNA
<213> Homo sapiens

<400> 32
aagatccgca gacgtgtaaa t

<210> 33
<211> 21
<212> DNA
<213> Homo sapiens

<400> 33
aaacacagac tcgcgttgca a

<210> 34
<211> 21
<212> DNA
<213> Homo sapiens

<400> 34
aacacagact cgcgttgcaa g

<210> 35
<211> 21
<212> DNA
<213> Homo sapiens

<400> 35
aaggcgaggc agcttgagtt a

<210> 36
<211> 21
<212> DNA
<213> Homo sapiens

<400> 36
aaacgaacgt acttgagat g

<210> 37
<211> 21
<212> DNA
<213> Homo sapiens

<400> 37
aacgaacgta cttgcagatg t

<210> 38
<211> 21
<212> DNA
<213> Homo sapiens

<400> 38
aacgtacttg cagatgtgac a

<210> 39

<211> 21
<212> DNA
<213> Homo sapiens

<400> 39
aatcgagacc ctgggtggaca t

<210> 40
<211> 21
<212> DNA
<213> Homo sapiens

<400> 40
aaggccagca cataggagag a

<210> 41
<211> 21
<212> DNA
<213> Homo sapiens

<400> 41
aaggaggagg gcagaatcat c

<210> 42
<211> 21
<212> DNA
<213> Homo sapiens

<400> 42
aatgcagacc aaagaaagat a

<210> 43
<211> 21
<212> DNA
<213> Homo sapiens

<400> 43
aatgtgaatg cagaccaaag a

<210> 44
<211> 21
<212> DNA
<213> Homo sapiens

<400> 44
aacatcacca tgcagattat g

<210> 45
<211> 21
<212> DNA
<213> Homo sapiens

<400> 45
aagcatttgt ttgtacaaga t

<210> 46
<211> 21
<212> DNA
<213> Homo sapiens

<400> 46
aagtggtaaa gttcatggat g

<210> 47
<211> 21
<212> DNA
<213> Homo sapiens

<400> 47
aagatagagc aagacaagaa a

<210> 48
<211> 21
<212> DNA
<213> Homo sapiens

<400> 48
aatccctgtg ggccttgctc a

<210> 49
<211> 21
<212> DNA
<213> Homo sapiens

<400> 49
aaatgtgaat gcagacccaa g

<210> 50
<211> 21
<212> DNA
<213> Homo sapiens

<400> 50
aatgacgagg gcctggagtg t

<210> 51
<211> 21
<212> DNA
<213> Homo sapiens

<400> 51
aaagtggtgt catggataga t

<210> 52
<211> 21
<212> DNA
<213> Homo sapiens

<400> 52
aagtggtgtc atggatagat g

<210> 53
<211> 21
<212> DNA
<213> Homo sapiens

<400> 53
aaacagctgg tgcccaagctg c

<210> 54
<211> 21
<212> DNA
<213> Homo sapiens

<400> 54
aagtccggat gcagatcctc a

<210> 55
<211> 21
<212> DNA
<213> Homo sapiens

<400> 55
aagaacacag ccagtgtgaa t

<210> 56
<211> 21
<212> DNA
<213> Homo sapiens

<400> 56
aacacagcca gtgtgaatgc a

<210> 57
<211> 21
<212> DNA
<213> Homo sapiens

<400> 57
aaaggacagt gctgtgaagc c

<210> 58

<211> 21
<212> DNA
<213> Homo sapiens

<400> 58
aaggacagtg ctgtgaagcc a

<210> 59
<211> 21
<212> DNA
<213> Homo sapiens

<400> 59
aagccagaca gggctgccac t

<210> 60
<211> 21
<212> DNA
<213> Homo sapiens

<400> 60
aaccaggaca cctgcaggta c

<210> 61
<211> 21
<212> DNA
<213> Homo sapiens

<400> 61
aaggagagga cctgaaactg t

<210> 62
<211> 21
<212> DNA
<213> Homo sapiens

<400> 62
aagcaaggag ggcctctgat g

<210> 63
<211> 21
<212> DNA
<213> Homo sapiens

<400> 63
aaggaggccc tctgatggta a

<210> 64
<211> 21
<212> DNA
<213> Homo sapiens

<400> 64
aactacctca agagcaaacg t

<210> 65
<211> 21
<212> DNA
<213> Homo sapiens

<400> 65
aagtggccag aggcatggag t

<210> 66
<211> 21
<212> DNA
<213> Homo sapiens

<400> 66
aaagtgcatt catcgggacc t

<210> 67
<211> 21
<212> DNA
<213> Homo sapiens

<400> 67
aagtgcattc atcgggacct g

<210> 68
<211> 21
<212> DNA
<213> Homo sapiens

<400> 68
agcacgctgt ttattgaaag a

<210> 69
<211> 21
<212> DNA
<213> Homo sapiens

<400> 69
aagggttca tcataatcaa t

<210> 70
<211> 21
<212> DNA
<213> Homo sapiens

<400> 70
aaaggctgag cataactaaa t

<210> 71
<211> 21
<212> DNA
<213> Homo sapiens

<400> 71
aaggctttct tctgaaataa a

<210> 72
<211> 21
<212> DNA
<213> Homo sapiens

<400> 72
aatgccatac tgacaggaaa t

<210> 73
<211> 21
<212> DNA
<213> Homo sapiens

<400> 73
aagaggatgc aggaaattat a

<210> 74
<211> 21
<212> DNA
<213> Homo sapiens

<400> 74
aaggcgacga attgacccaa g

<210> 75
<211> 21
<212> DNA
<213> Homo sapiens

<400> 75
aagatcctga actgagttta a

<210> 76
<211> 21
<212> DNA
<213> Homo sapiens

<400> 76
aaggctgagc ataactaaat c

<210> 77

<211> 21
<212> DNA
<213> Homo sapiens

<400> 77
aaggccaaga tttgcagaac t

<210> 78
<211> 21
<212> DNA
<213> Homo sapiens

<400> 78
aacacacctag tgcatatata t

<210> 79
<211> 21
<212> DNA
<213> Homo sapiens

<400> 79
aaagggcttc atcatatcaa a

<210> 80
<211> 21
<212> DNA
<213> Homo sapiens

<400> 80
aatcctccag aagaaagaaa t

<210> 81
<211> 21
<212> DNA
<213> Homo sapiens

<400> 81
aacagaattt cctgggacag c

<210> 82
<211> 21
<212> DNA
<213> Homo sapiens

<400> 82
aactgaagac aggctacttg t

<210> 83
<211> 21
<212> DNA
<213> Homo sapiens

<400> 83
aaggacttcc tgaccttggga g

<210> 84
<211> 21
<212> DNA
<213> Homo sapiens

<400> 84
aagtggctaa gggcatggag t

<210> 85
<211> 21
<212> DNA
<213> Homo sapiens

<400> 85
aaggcatgg agttcttggc a

<210> 86
<211> 21
<212> DNA
<213> Homo sapiens

<400> 86
aaatgtacca gaccatgctg g

<210> 87
<211> 21
<212> DNA
<213> Homo sapiens

<400> 87
aattccattt tgacaacaca g

<210> 88
<211> 21
<212> DNA
<213> Homo sapiens

<400> 88
aacagtaagc gaaagagccg g

<210> 89
<211> 21
<212> DNA
<213> Homo sapiens

<400> 89
atgacaacac agcaggaatc a

<210> 90
<211> 21
<212> DNA
<213> Homo sapiens

<400> 90
aagctcagca cacagaaaaga c

<210> 91
<211> 21
<212> DNA
<213> Homo sapiens

<400> 91
aatgcggcgg tggtgacagt a

<210> 92
<211> 21
<212> DNA
<213> Homo sapiens

<400> 92
aatgccacca tgttctctaa t

<210> 93
<211> 21
<212> DNA
<213> Homo sapiens

<400> 93
aagctcctga agatctgtat a

<210> 94
<211> 21
<212> DNA
<213> Homo sapiens

<400> 94
aagcagatgc ctttggaaatt g

<210> 95
<211> 21
<212> DNA
<213> Homo sapiens

<400> 95
aagcggctac cagtccggat a

<210> 96

<211> 21
<212> DNA
<213> Homo sapiens

<400> 96
aagtccctca gtgatgtaga a

<210> 97
<211> 21
<212> DNA
<213> Homo sapiens

<400> 97
aagtgcctct accggaaac t

<210> 98
<211> 21
<212> DNA
<213> Homo sapiens

<400> 98
aatccctgtg gatctgaaac g

<210> 99
<211> 21
<212> DNA
<213> Homo sapiens

<400> 99
aaggctaata caactttca a

<210> 100
<211> 21
<212> DNA
<213> Homo sapiens

<400> 100
aatcccttta caaaggagaa g

<210> 101
<211> 21
<212> DNA
<213> Homo sapiens

<400> 101
aagtggatac agagagctaa t

<210> 102
<211> 21
<212> DNA
<213> Homo sapiens

<400> 102
aaggctgctg gattccagta t

<210> 103
<211> 21
<212> DNA
<213> Homo sapiens

<400> 103
aagcagtctg tgattgaaat g

<210> 104
<211> 21
<212> DNA
<213> Homo sapiens

<400> 104
aagccctcat cactggttgt g

<210> 105
<211> 21
<212> DNA
<213> Homo sapiens

<400> 105
aaaggacatg gttagaatta a

<210> 106
<211> 21
<212> DNA
<213> Homo sapiens

<400> 106
aaggccttgg ccgtctggtt a

<210> 107
<211> 21
<212> DNA
<213> Homo sapiens

<400> 107
aagggtgtca ggtatttctt a

<210> 108
<211> 21
<212> DNA
<213> Homo sapiens

<400> 108
aatggagcga agctttcata t

<210> 109
<211> 21
<212> DNA
<213> Homo sapiens

<400> 109
aagtactgtg aagatgttaa t

<210> 110
<211> 21
<212> DNA
<213> Homo sapiens

<400> 110
aaggacatgg ttagaattaa c

<210> 111
<211> 21
<212> DNA
<213> Homo sapiens

<400> 111
aaggtactct cgcaggaaat g

<210> 112
<211> 21
<212> DNA
<213> Homo sapiens

<400> 112
aaacggaggc tgtgaacata t

<210> 113
<211> 21
<212> DNA
<213> Homo sapiens